

ABSTRACT

A thrust needle roller bearing (10A, 10B) has a washer (1) formed of a thin steel plate and needle rollers (2), at least said washer (1) has a nitrogen enriched layer at a surface layer portion, amount of retained austenite in said surface layer portion is at least 5 volume % and at most 25 volume %, and austenite grain number of said surface layer portion is 11 or higher. Thus, a long life thrust needle roller bearing resistant to an early failure caused by surface damage such as surface-originated flaking and also resistant to common, load dependent rolling contact fatigue can be provided.

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